Claims 1 - 20 are pending in the present application. By this Amendment, claims

1 – 20 have been amended. No new matter has been added. It is respectfully submitted

that this Amendment is fully responsive to the Office Action dated August 29, 2003.

**Claim Objections:** 

Claims 1, 5, 9-11, 14 and 17-20 stand objected to on page 2 of the Action due to

some apparent informalities. However, it is respectfully submitted that each of these

claims 1, 5, 9 - 11, 14 and 17 - 20 have been amended to correct such informalities.

Accordingly, withdrawal of this objection is respectfully requested.

As to the Merits

As to the merits of this case, the Examiner sets forth the following rejections:

1) claims 1-3, 5-7 and 9-20 are rejected under 35 U.S.C. §102(e) as being

anticipated by Tanaka et al. (U.S. Patent No. 6,567,972); and

2) claims 4 and 8 are rejected under 35 U.S.C. §103(a) as being unpatentable

over Tanaka et al. (U.S. Patent No. 6,567,972) in view of prior admitted

art.

Both of these rejections are respectfully traversed.

13

Application No.: 10/067,827

Amendment dated December 1, 2003

Reply to Office Action of August 29, 2003

The present invention relates to a pattern detection method in which alignment

reference coordinates are set in a region near a target pattern in a device forming region

of a mask pattern formed on a mask for a semiconductor product, the target pattern to be

a target of a test of the mask pattern such that the target pattern can swiftly and

automatically be detected with high precision based on the alignment reference

coordinates (see page 5, lines 7-12 of the specification).

Tanaka relates to a method for correcting a mask pattern deviated due to optical

proximity effects that arise when the mask patter is transferred ont a substrate, and

particularly relates to a method for correcting the mask pattern in consideration of various

deviations that are assumed in the optical lithography process (deviations in exposure

does, focusing, etc.), as described in column 1, lines 19 to 25.

Tanaka does not disclose a method for detecting a mask pattern as disclosed by

the present application. That is, <u>Tanaka</u> fails to disclose "detecting a target pattern in a

device forming region on a mask, comprising: selecting, as an alignment patter in the

device region, the alignment pattern for setting a position at which the detection of the

target patten is performed, from among a group of patterns included in a region near the

target pattern, the region in the device forming region, a pattern having a barycenter

position at a barycenter of the pattern in a first direction, the barycenter position that is

not displaced from a predetermined barycenter even if the patterns are deformed when

the patters are formed on the mask; setting the barycenter position of the alignment patter

14

Application No.: 10/067,827

Amendment dated December 1, 2003

Reply to Office Action of August 29, 2003

in the first direction as alignment reference coordinates; and detecting the target pattern

based on the alignment reference coordinates," as recited in the amended independent

claims and as pointed out in your analysis.

For at least the foregoing reasons, it is believed that this application is now in

condition for allowance. If, for any reason, it is believed that this application is not in

condition for allowance, Examiner is encouraged to contact the Applicants' undersigned

attorney at the telephone number below to expedite the disposition of this case.

In the event that this paper is not timely filed, Applicants respectfully petition for

an appropriate extension of time. Please charge any fees for such an extension of time

and any other fees which may be due with respect to this paper, to Deposit Account No.

50-2866.

Respectfully submitted,

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP

Thomas E. Brown

Reg. No.: 44,450

Attorney for Applicant

Tel: (202) 822-1100

Fax: (202) 822-1111

Attachments: Change of Correspondence Address

TEB/rer

15